

## PATENT COOPERATION TREATY

Serial # 10/723,778  
Filed November 26, 2003

From the INTERNATIONAL SEARCHING AUTHORITY

To:  
 STEVEN GARDNER  
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 WINSTON-SALEM, NC 27101

PCT

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NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT AND  
THE WRITTEN OPINION OF THE INTERNATIONAL  
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference IMM174.PCT	Date of mailing (day/month/year) <b>11 FEB 2005</b>
International application No. PCT/US04/24358	FOR FURTHER ACTION See paragraphs 1 and 4 below International filing date (day/month/year) 29 July 2004 (29.07.2004)
Applicant IMMERSION CORPORATION	

1.  The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

**When?** The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

**Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35

For more detailed instructions, see the notes on the accompanying sheet.

2.  The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3.  With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until **30 months** from the priority date (in some Offices even later); otherwise, the applicant must, within **20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/201 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US  
 Mail Stop PCT, Attn: ISA/US  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 Facsimile No. (703)305-3230

## Authorized officer

Prabodh dharia  
*Renai*  
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# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference IMM174.PCT	<b>FOR FURTHER ACTION</b> <span style="float: right;">see Form PCT/ISA/220 as well as, where applicable, item 5 below.</span>	
International application No. PCT/US04/24358	International filing date ( <i>day/month/year</i> ) 29 July 2004 (29.07.2004)	(Earliest) Priority Date ( <i>day/month/year</i> ) 26 November 2003 (26.11.2003)
Applicant IMMERSION CORPORATION		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the Report**

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b.  With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

Certain claims were found unsearchable (See Box No. II)

Unity of invention is lacking (See Box No. III)

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 1

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

- b.  none of the figures is to be published with the abstract.

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US04/24358

**Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)**

Systems and methods for adaptively interpreting a user's intent based on parameters supplied by a touch sensitive input device (figure1) are described. In one of the methods described, a processor receives a pressure signal indicating a pressure from an input device, such as a touchpad, compares the pseudo pressure signal to a pressure threshold value, and outputs a signal if the pseudo pressure signal is greater than the pressure threshold value. In another embodiment, the processor also calculates the speed of movement of a conductor, for instance a user's finger, across the input device, and compares the speed to a threshold. If the speed is greater than the threshold, the processor determines that although the pressure may be great enough to signal a press, no press is intended. The various parameters supplied by the input device may be digitally filtered to increase the accuracy of the determination of user intent.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/24358

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G09G 05/00  
 US CL : 345/173, 156-158,162,163,179, 178/18.01-07, 19.05, 422/45, 356/72, 84/726  
 According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 U.S. : 345/173, 156-158,162,163,179, 178/18.01-07, 19.05, 422/45, 356/72, 84/726

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,159,159 (Asher) 27 October 1992 (27.10.1992) Column 1, Lines 5-11, Col. 2, Line64 to Col. 4, Line 53, Col. 5, Lines 1-67, Col. 9, Lines 15-49, Col. 10, Lines 50-66, Col. 14, Line 44 to Col. 16, Line 6, Col. 17, Line 1 to Col. 19, Line 59, Col. 20, Line 63 to Col. 21, Line 3, Col. 21, Lines 12-20, Col. 22, Lines 6-13	1-30
Y	US 6,610,936 B2 (Gillespie et al. 26 August 2003 (26.08.2003) Col. 4, Line 59-62, Col. 5, Lines 39-52, Col. 8, Lines 53-65, Col. 9, Line 6 to Col. 10, line20, Col. 11, Lines 21-57, Col. 13, Line 6 to Col. 14, Line 42, Col. 20, Lines 21 to Col. 21, Line 65, Col. 22, Lines 54-59, Col. 23, lines 32-65, Col. 26, Lines 45 to Col. 27, Line39, Col. 32, Lines 39-56, Col. 33, Lines 55 to Col. 34, Line 3, Col. 35, Lines 32-67	1-30
Y	US 6,610,917 (Ludwig) 26 August 2003 (26.08.2003) Col. 19, line 9 to Col. 24, Line 5, Col. 24, lines 63-65Col. 30, line65 to Col. 31, line 22, Col. 38, lines 24-39, Col. 73, Line 10 to Col. 74, Line 67, Col. 75, Line 1 to Col. 76, Line 43	1-30

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

17 January 2005 (17.01.2005)

Date of mailing of the international search report

11 FEB 2005

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